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TURCO DESCALER

PRODUCT DATA SHEET

WHAT IS IT?

CATEGORY Inhibited muriatic acid

HOW THIS PRODUCT IS IMPROVED OVER PREVIOUS TURCO PRODUCTS Less corrosive and better stability

VARIATION OF \_\_\_\_\_ SIMILAR TO \_\_\_\_\_

PRINCIPAL DIFFERENCES New formulation

APPEARANCE: LIQUID xxx PASTE \_\_\_\_\_ POWDER \_\_\_\_\_ COLOR Blue-Purple

WATER CONDITIONS Any

MEETS SPECS None

SALES RESTRICTIONS None

WHAT DOES IT DO?

PRINCIPAL USE Removal of rust, scale and corrosion from ferrous metals

OTHER USES \_\_\_\_\_

WHAT ARE PROPERTIES OF PRODUCT?

STABILITY: 3 MONTHS \_\_\_\_\_ 6 MONTHS xxx 1 YEAR \_\_\_\_\_ OTHER \_\_\_\_\_

STORAGE TEMPERATURE LIMITS: MAXIMUM 110°F MINIMUM 30°F

SAFE ON: REACTIVE METALS \_\_\_\_\_ FERROUS METALS \_\_\_\_\_ PAINT \_\_\_\_\_

MAGNESIUM \_\_\_\_\_ ZINC-COATED METALS \_\_\_\_\_ COPPER ALLOYS \_\_\_\_\_

CADMIUM \_\_\_\_\_ LEAD \_\_\_\_\_ NICKEL \_\_\_\_\_ TIN \_\_\_\_\_ OTHER \_\_\_\_\_

TOXICITY & HAZARDS: CLASS: Vb - contains hydrochloric acid

FLASH POINT none

PACKAGING: STEEL \_\_\_\_\_ PLASTIC LINED STEEL xxx FIBRE \_\_\_\_\_ PLASTIC LINED FIBRE xxx

GLASS xxx GALVANIZED STEEL \_\_\_\_\_ OTHER \_\_\_\_\_

# TURCO DESCALER

## HOW SHOULD IT BE USED?

EQUIPMENT REQUIRED Acid resistant tank -- rubber or plastic lined,  
acid resistant brick, etc.

DISSOLVING INSTRUCTIONS Add Descaler to water slowly

TEMPERATURE: PREFERRED Room MAXIMUM 160°F MINIMUM 50°F

CONCENTRATION: 5 to 50% by volume TEST FACTOR See Test Kit Instructions

OPERATING pH Less than 1.0

CLEANING OR PROCESSING TIME As required

RECOMMENDED RINSE Clean water followed by alkaline TIME rinse for neutralization.

MAINTENANCE REQUIREMENTS:

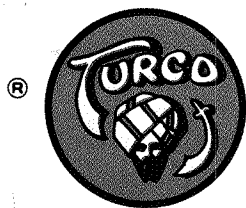
Test for free acid and make additions as needed.

SPECIAL INSTRUCTIONS: Preclean work if oily soils present

GENERAL REMARKS New and improved Descaler is 200 times less corrosive  
than previous Descaler. A 30%/volume Descaler solution caused 0.031  
mils penetration of mild steel in one hour at 160°F.

Rev. 7/63

COMPETITIVE PRODUCTS:

**TECHNICAL****DATA****BULLETIN NO. 745**

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# **TURCO<sup>®</sup> DE-SCALER**

**REMOVES RUST, SCALE, CORROSION FROM FERROUS METALS**

TURCO DE-SCALER will remove rust, corrosion and scale from steel, copper, bronze and brass. Inhibited against acid attack on the base metal, TURCO DE-SCALER can be used by immersion or by circulation -- can be used at extremely low concentrations -- requires no elaborate heating or specially designed equipment.

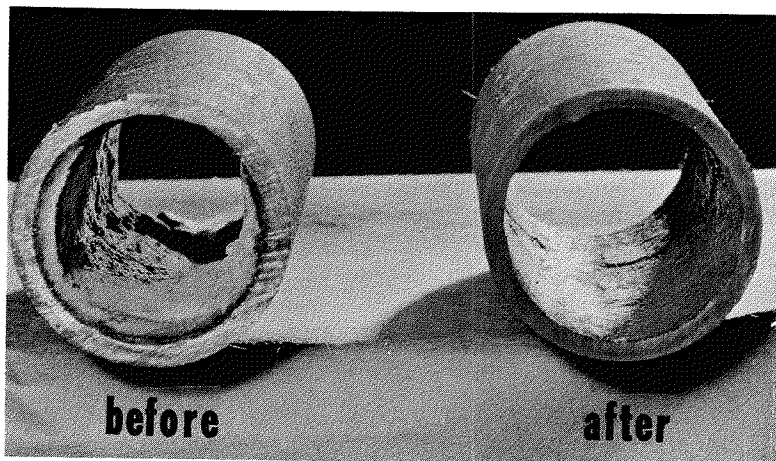
## **WHY YOU SHOULD USE TURCO DE-SCALER**

Turco De-Scaler provides inhibited, controlled, uniform acid action. Raw muriatic acid depends partly upon chemical attack on the underlying metal for its effect. Raw muriatic acid not only removes the undesirable surface oxides, but also etches away a considerable amount of the base metal as well. Turco Inhibited De-Scaler acid acts by dissolving scale and corrosion, but is inhibited against further removal of the base metal.

### **One material - many uses:**

Removal of rust and corrosion from steel and copper equipment of all types prior to overhaul and rebuilding.

Removal of rust and corrosion from parts which are subject to processing delays and interplant transfer.



Rust-removal prior to painting, soldering, brazing and plating.

Descaling steam generators and steam cleaner coils.

Descaling dishwashing machines.

## HOW TO USE TURCO DE-SCALER

For cleaning by immersion or circulation, a five to thirty percent cold solution of De-Scaler is recommended, depending upon the type of metal being processed and the amount of oxide to be removed. For the removal of very heavy rust or scale, the higher concentration should be employed. Add the De-Scaler to the water slowly, while mixing. De-Scaler is normally used at room temperature; however, its action can be accelerated by raising the temperature up to a maximum of 160°F. if adequate ventilation is employed. At elevated temperatures, De-Scaler solutions are not as long-lasting as at room temperature.

Heavy grease and oil accumulations should be removed by alkaline pre-cleaning prior to immersion into De-Scaler solutions. Upon withdrawal from De-Scaler solution, parts should be rinsed in clean running water. Parts removed from the

De-Scaler solution should be neutralized in a Turco alkaline hot tank cleaner, and rinsed, to minimize post-rusting. This dip should be hot to speed drying.

De-Scaler solutions may be contained in acid-proof plastic or rubber lined tanks, acid resistant bricks or ceramic containers, or wooden vats.

**CAUTION:** Turco De-Scaler contains Hydrochloric Acid. Avoid contact with skin, eyes and clothing. Refer to label for further precautionary and handling information.

**NOTICE:** The above information and recommendations concerning this product are based upon our laboratory tests and field use experience, however since conditions of actual use are beyond our control, any recommendations or suggestions are made without warranty, express or implied. Manufacturer's and seller's sole obligation shall be to replace that portion of the product shown to be defective. Neither shall be liable for any loss, damage or injury, direct or consequential, arising out of the use of this product.